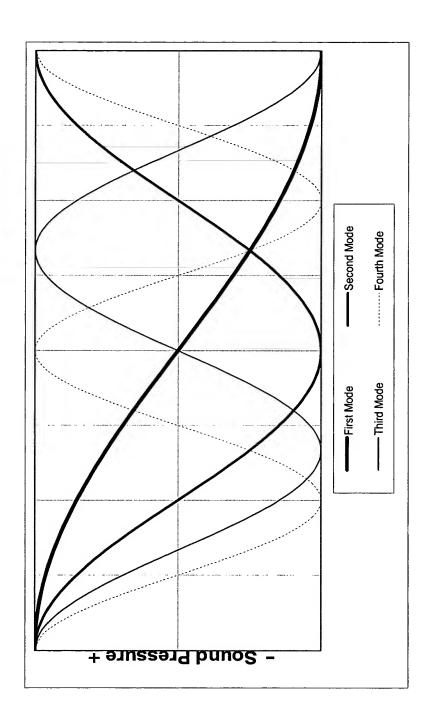
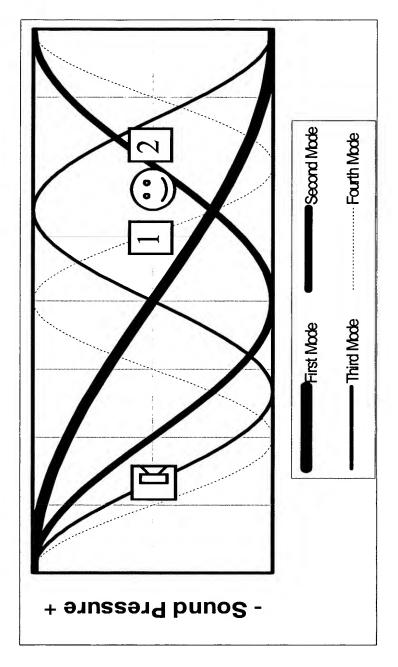
Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
1/42



<u>1</u>6.2

Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
2/42



PRIOR ART

Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
3/42

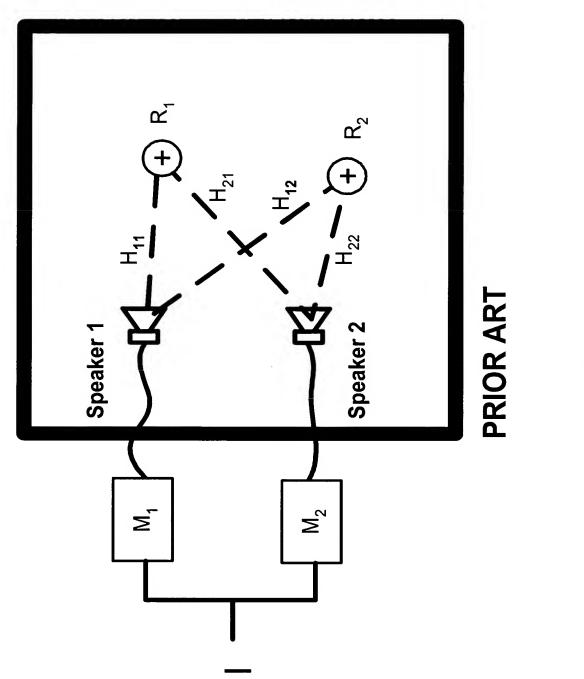
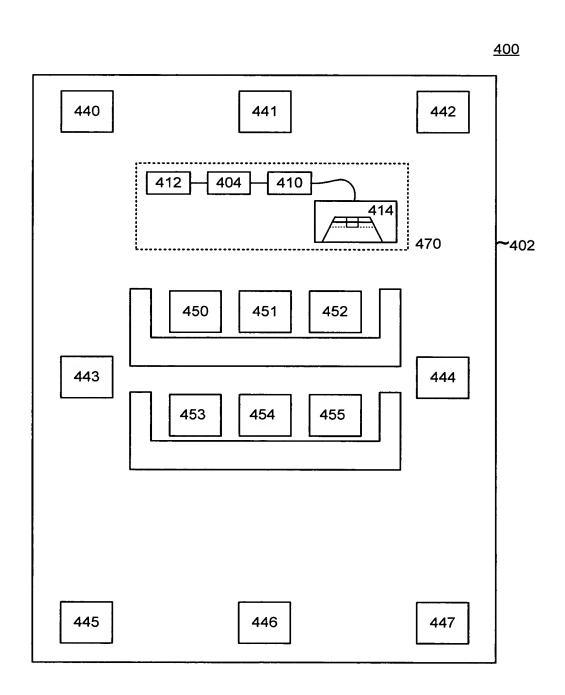


FIG. 4



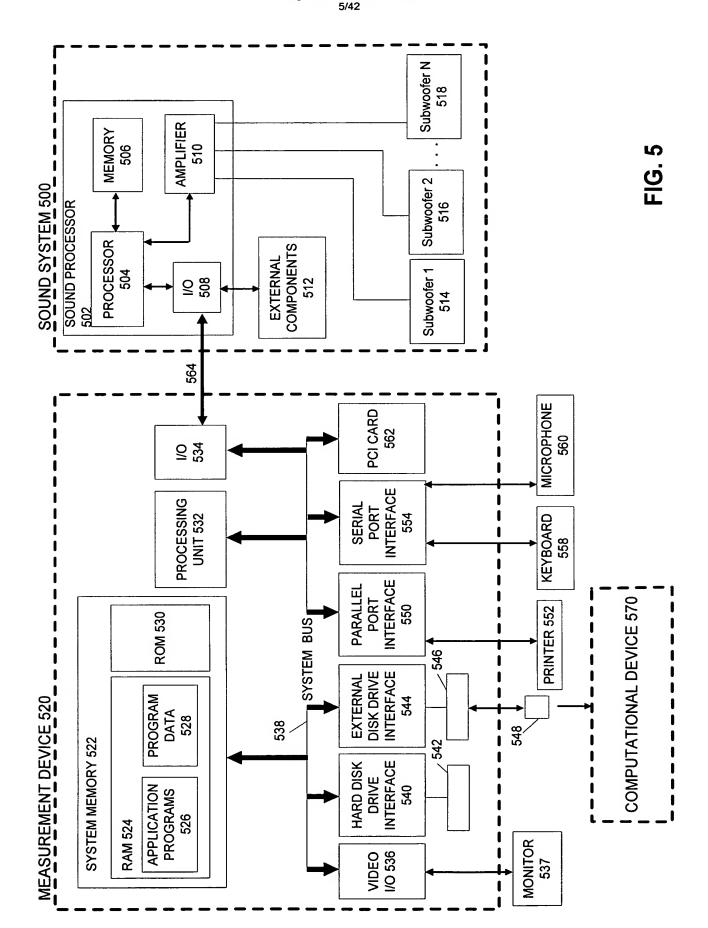


FIG. 6

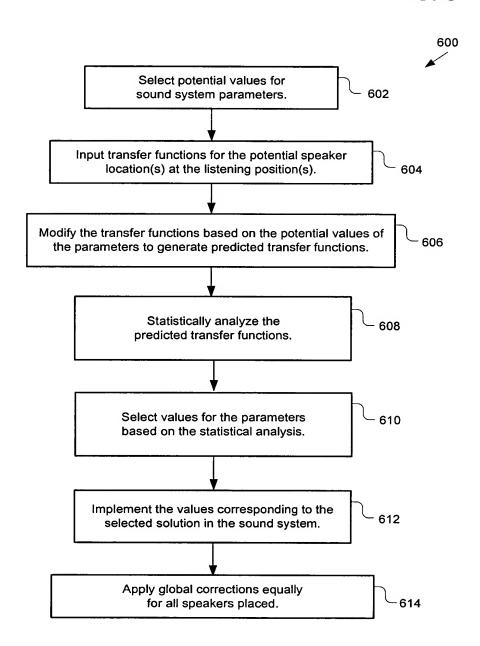


FIG. 7

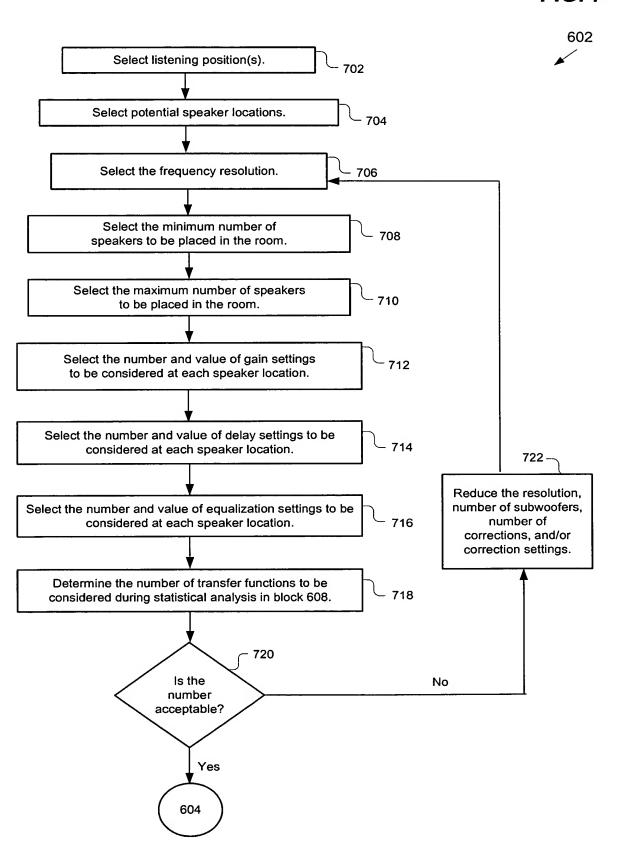
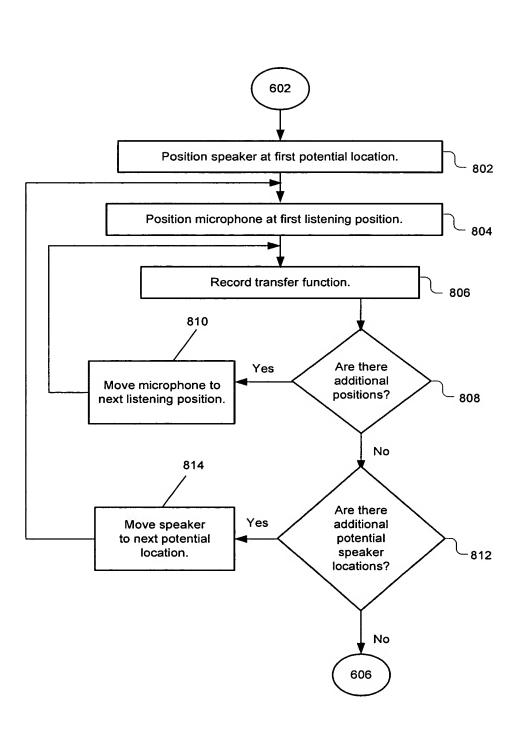


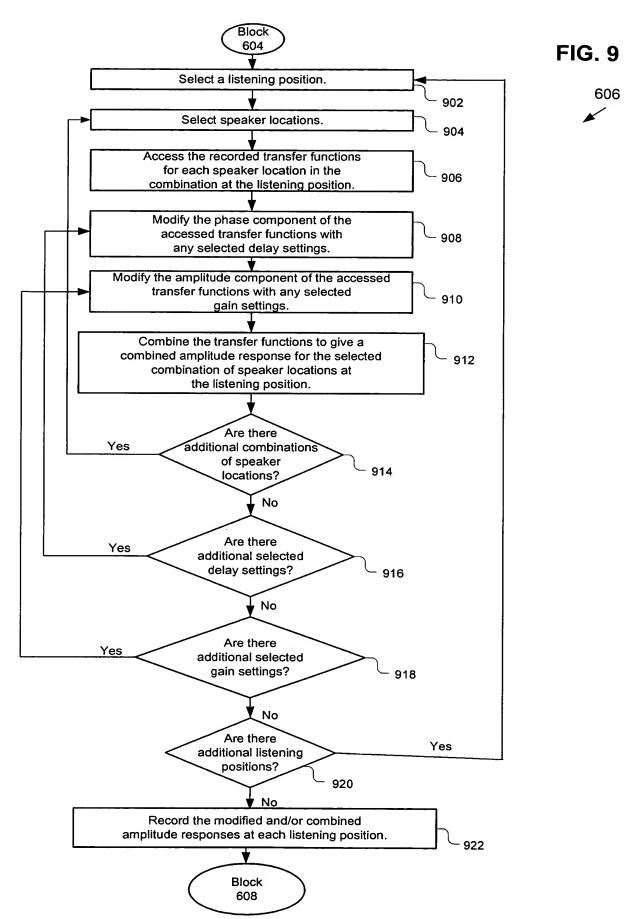
FIG. 8





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Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003

9/42



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62.7919

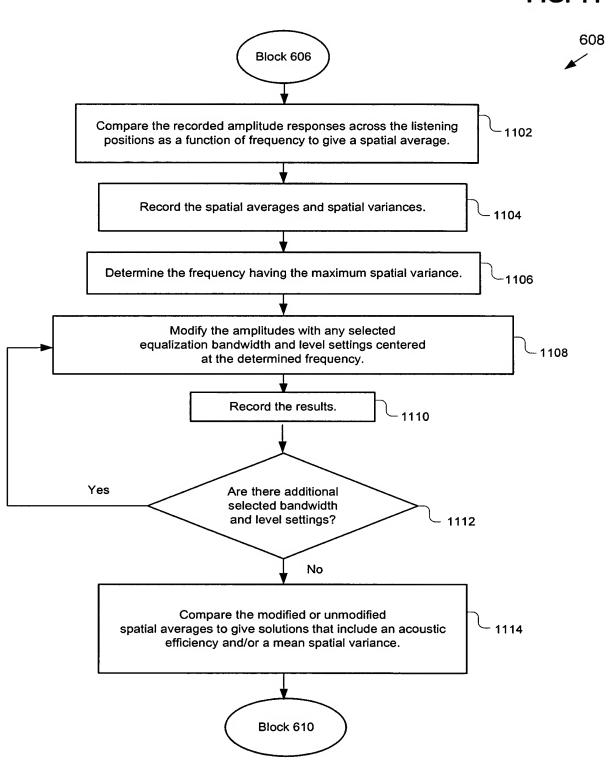
7.924135

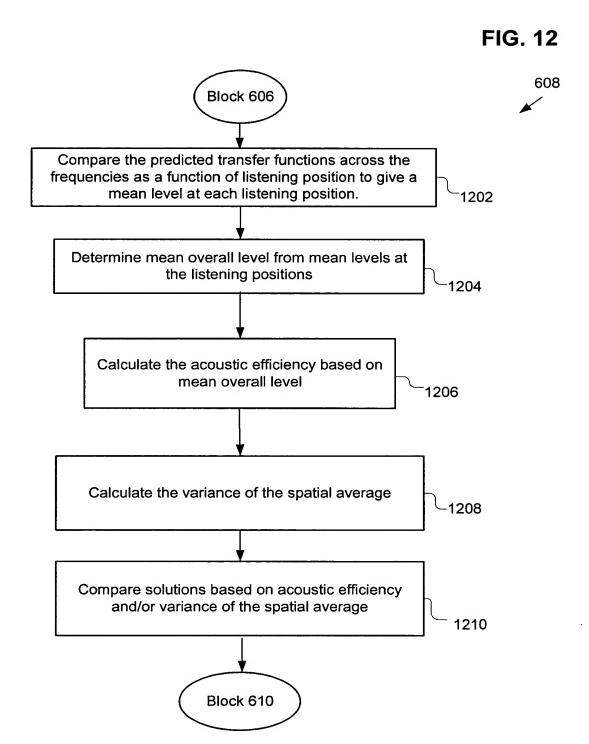
25.80

Inventor Names: TODD S. WELTI, ET AL. Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM Docket No. 11336-545 (P03121US) Filing Date: October 10, 2003 10/42

Envelope of Mean Levels Max-ave of Mean Levels	Variance of Mean Levels STDEV of Mean Levels	Mean Overall Level	Moon lovel	80	78	76	74	72	70 70	ဘ (5 6 .	64	62	60	58	56	54	52	50	48	46	44	42	40	သူ	သ ဂ်ာ	34	32	30	28	26	24	22	20	frequency	
<i></i>	· · · · · ·		10 16	-5.65	-21.63	-8.14	-6.33	-5.02	-6.24	-2.12	-6.57	-6.34	-0.95	1.31	4.13	5.60	5.22	0.47	-6.76	-16.58	-15.85	-13.85	-15.02	-18.75	-19.83	-19.06	-19.80	-22.44	-19.70	-11.72	-11.73	-17.26	-16.60	-17.71	seat 1	
•		0	- 50 50 50 50 50 50 50 50 50 50 50 50 50	-10.12	-9.69	-3.79	-1.93	-1.94	4.01	0.25	-3.47	4.22	0.43	2.94	5.71	7.68	7.20	2.07	4.32	-12.29	-13.80	-12.98	-13.59	-16.72	-17.91	-19.48	-19.50	-22.50	-17.51	-14.14	-14.44	-24.25	-15.62	-16.38	seat 2	2 0
0.89	0.86	-8.97	-8 22	-6.63	4.21	-1.29	0.01	ა.21	-0 :33	1.84	-1.77	-2.79	1.43	3.23	5.20	6.99	5.79	-0.50	-7.56	-15.48	-12.74	-13.78	-14.73	-17.08	-20.68	-18.22	-21.25	-19.69	-13.79	-13.79	-16.10	-20.21	-15.44	-18.13	seat 3	Raw Data
		:	-9.74	-11.59	-16.46	-12.48	-9.78	-4.27	-5.86	-18.61	-6.68	-1.93	-0.04	2.15	2.36	2.99	-0.33	-7.13	-12.47	-14.20	-18.62	-21.20	-18.38	-20.89	-14.88	-13.00	-17.85	-13.33	-8.16	-3.30	-8.19	-10.22	-5.07	-14.51	seat 4	
			-8.08	-5.71	-8.91	-18.59	-10.56	-1.03	-1.09	-7.12	-4.59	0.77	2.53	6.85	8.14	8.86	5.60	-0.89	-6.48	-10.02	-13.84	-18.60	-21.44	-22.82	-23.61	-19.80	-16.70	-12.41	-8.69	-8.24	-9.83	-13,12	-6.21	-12.99	seat 5	
Г	Level -8.97	Overall	Mean	-7.94	-12.18	-8.86	-5.72	-3.09	-3.51	-5.15	-4.62	-2.90	0.68	3.30	5.11	6.42	4.70	-1.19	-7.52	-13.71	-14.97	-16.08	-16.63	-19.25	-19.38	-17.91	-19.02	-18.07	-13.57	-10.24	-12.06	-17.01	-11.79	-15.94	Average	Spatial
√ariance	Variance 15.24	Spatial	Mean	7.50	47.03	47.82	21.88	2.68	7.29	68.03	4.37	7.00	1.80	4.50	4.52	5.07	8.45	12.33	9.09	6.80	5.43	13.10	10.41	6.71	10.54	7.89	3.14	23.96	26.58	20.54	10.53	31.00	31.88	4.72	Variance	Spatial
STDEV	STDEV 3.52	Spatial	Mean	2.74	6.86	6.92	4.68	1.64	2.70	8.25	2.09	2.64	1.34	2.12	2.13	2.25	2.91	3.51	3.02	2.61	2.33	3.62	3.23	2.59	3.25	2.81	1.77	4.90	5.16	4.53	3.25	5.57	5.65	2.17	STDEV	Spatial
€nvelope	Envelope 8.55	Spatial	Mean	5.94	17.42	17.30	10.57	3.99	5.91	20.45	4.91	7.11	3.47	5.54	5.78	5.87	7.53	9.21	8.15	6.55	5.88	8.22	7.85	6.10	8.73	6.80	4.55	10.09	11.54	10.83	7.92	14.03	11.53	5.14	Envelope	Spatial
Max-ave	Max-ave 4.09	Spatial	Mean	2.29	7.97	7.57	5.73	2.06	3.17	6.99	2.85	3.67	1.85	3.55	3.03	2.44	2.50	3.27	3.20	3.69	2.23	3.10	3.04	2.53	4.50	4.91	2.32	5.66	5.41	6.94	3.87	6.79	6.72	2.96	Max-ave	Spatial

FIG. 11





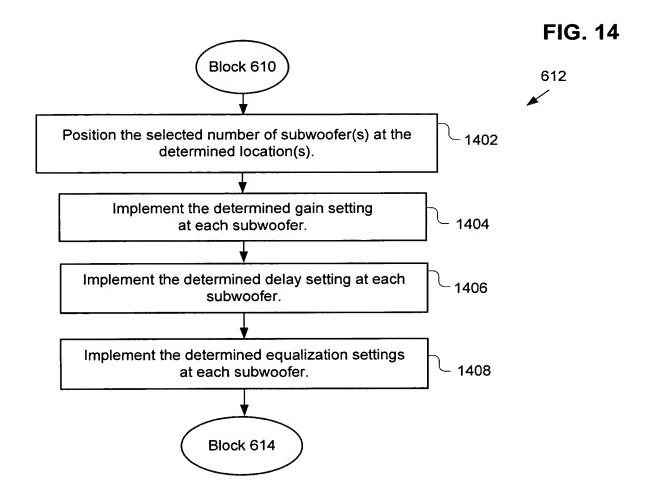
Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
13/42

FIG. 13

Illustrative Solution Sets Ranked by Spatial Variance

Solution	MSV	AE	VSA	S	Gain (dB)	Delay (ms)	Eq. Center (Hz)	Eq Bandwidth (Q)	Eq. Level (dB)
1	4.0	12	18	1, 2	0, 0	0, 5	82, 37	1, 4	0, -6
2	4.4	19	15	1, 2, 3	-6, 0, -12	0, 10, 0	22, 64, 85	1, 4, 1	-12, 0, -6
3	5	14	13	2, 3	-6, 0	10, 0	27, 41	8, 1	-6, -12
4	6	10	16	3, 4	-12, 0	0, 0	93, 51	1, 8	-12, 0
5	10	23	20	1, 3, 4	0, -12, 0	5, 0	34, 86	1, 1, 8	0, 0, -12
10,000	17	2	56	1, 4	-6, -12	0, 10	27, 91	8, 8	-6, -12, -6

Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM Docket No. 11336-545 (P03121US) Filing Date: October 10, 2003 14/42



Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
15/42

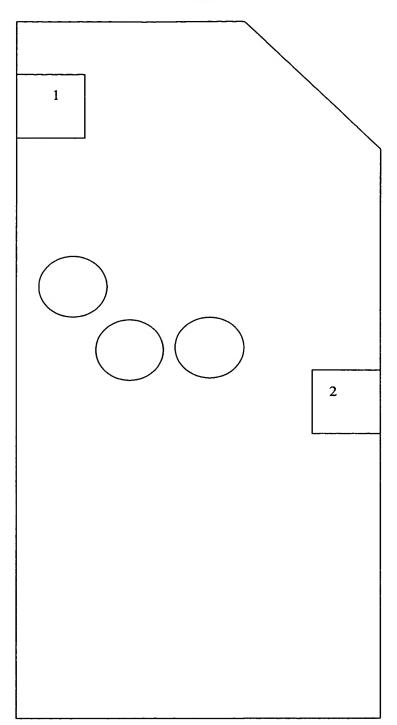
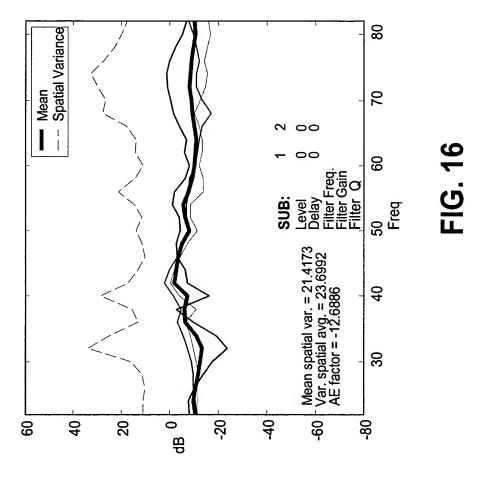
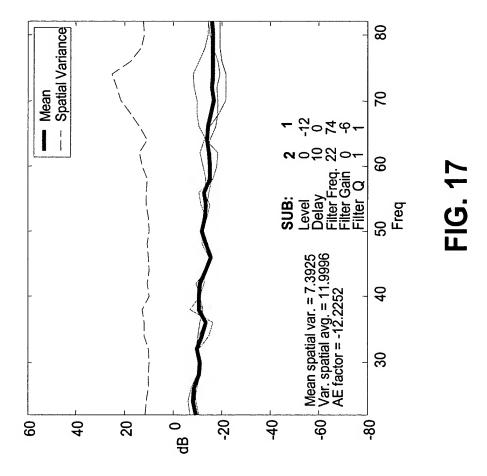


FIG. 15

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Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
16/42





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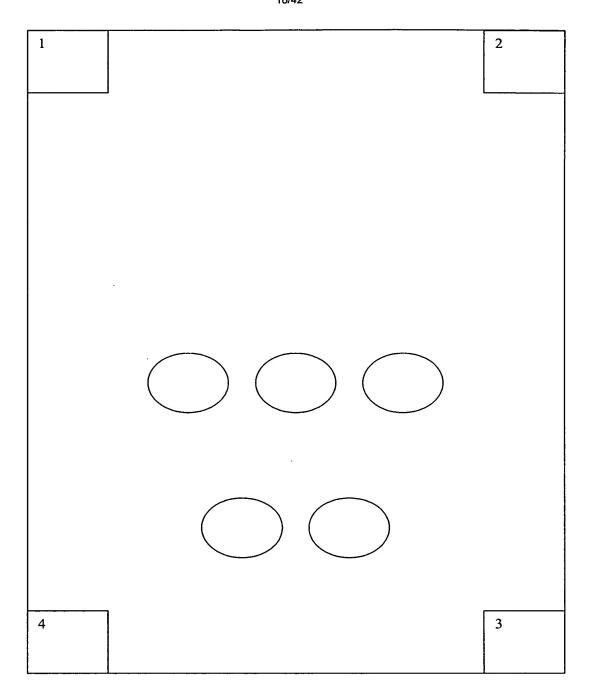
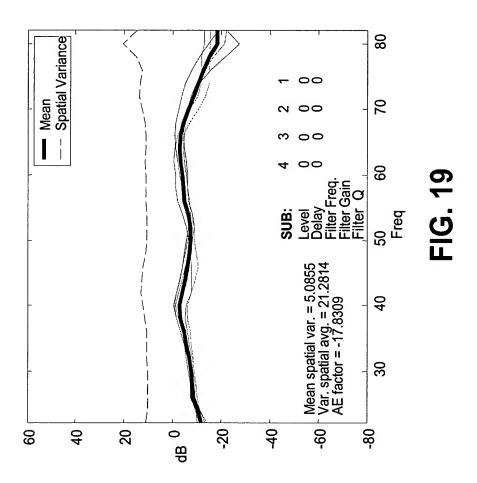
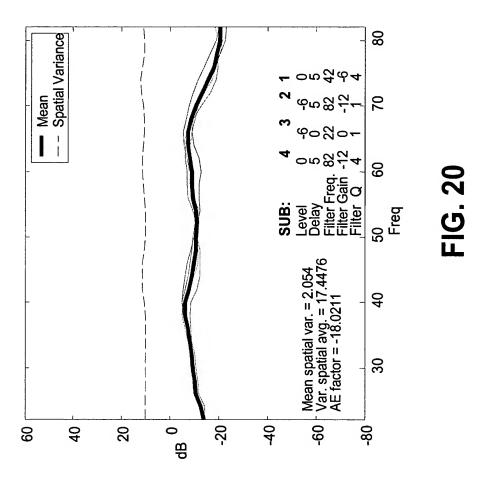
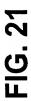


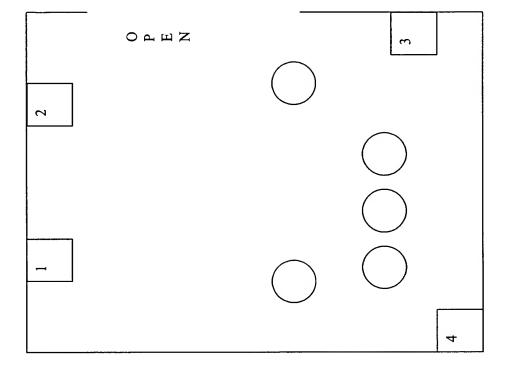
FIG. 18

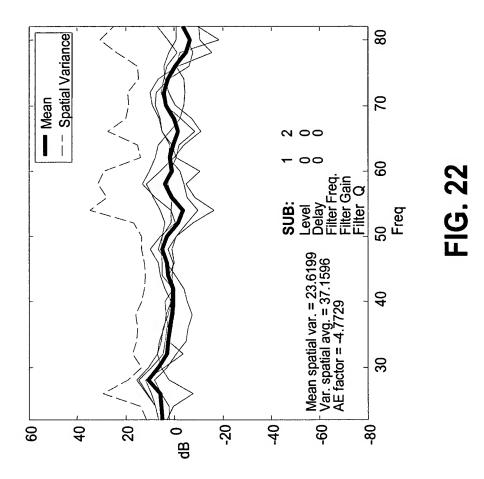


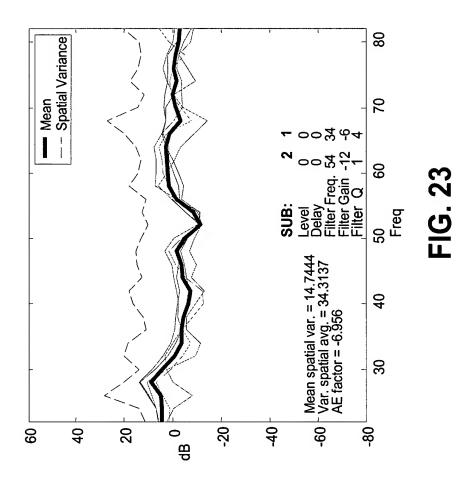
Inventor Names: TODD S. WELTI, ET AL.
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Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
20/42

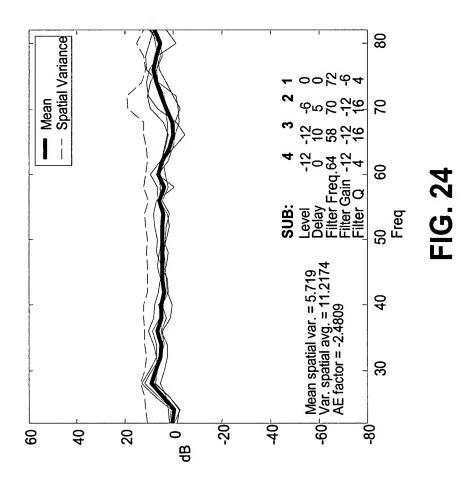




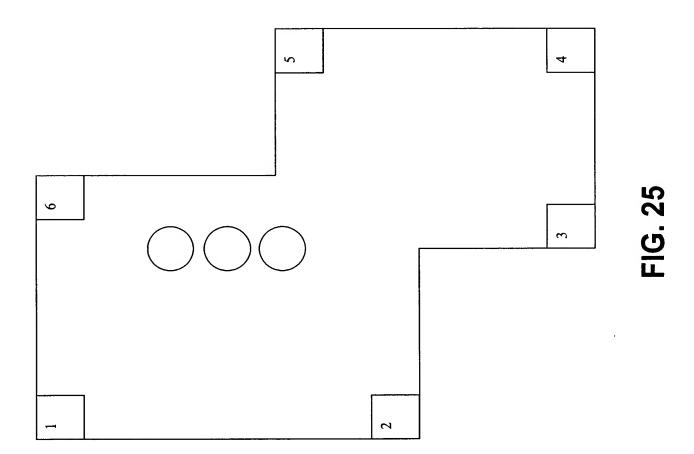


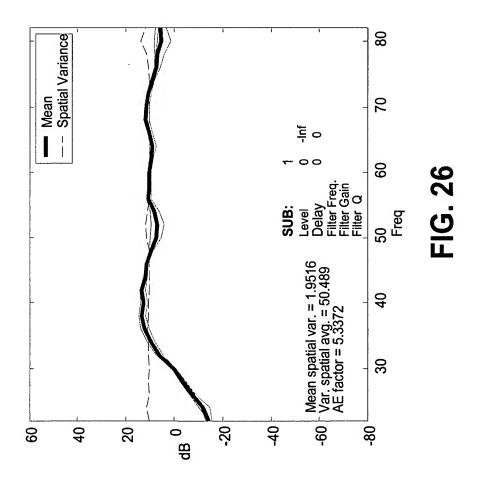


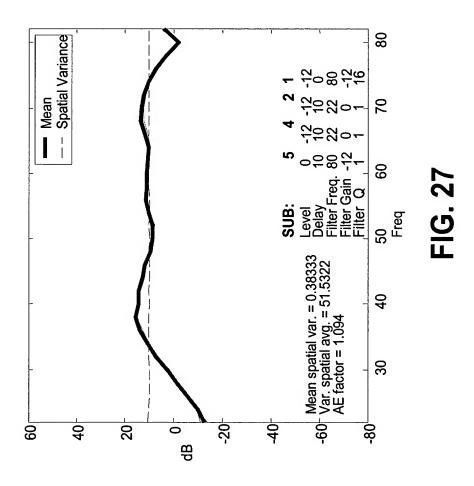


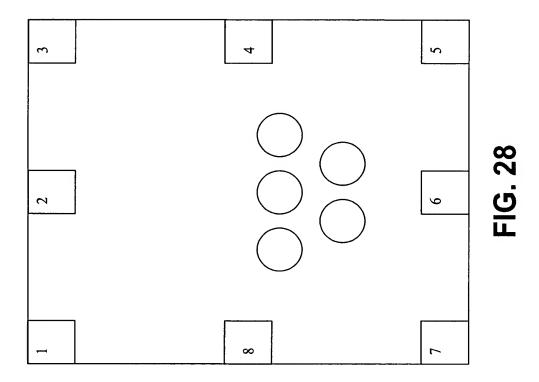


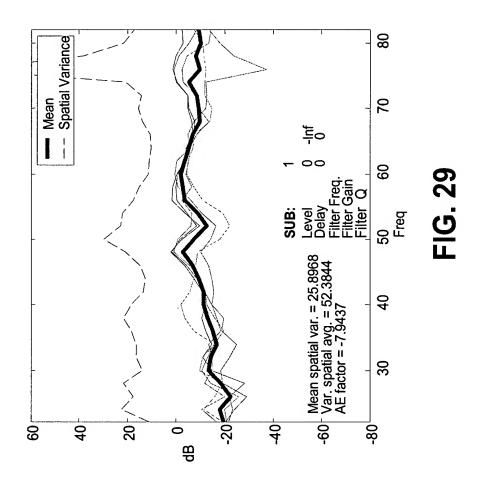
Inventor Names: TODD S. WELTI, ET AL.
Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
25/42

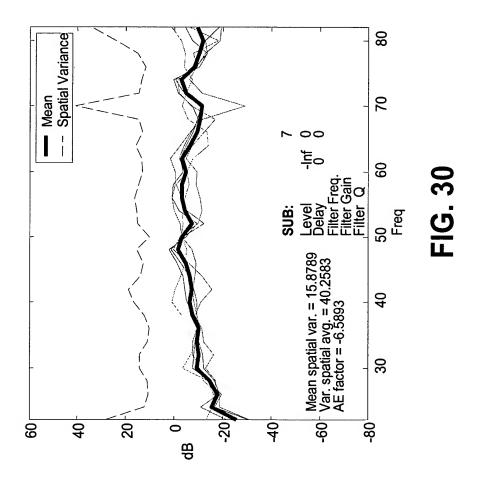


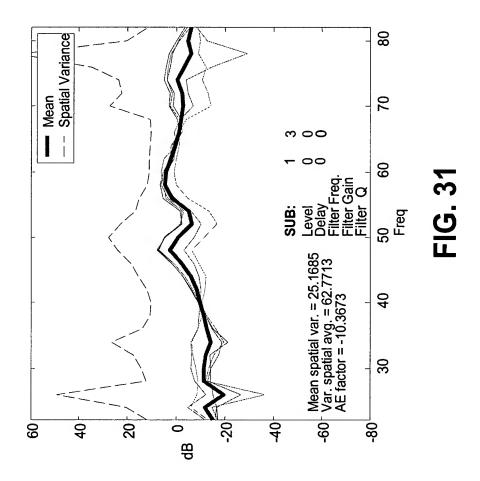


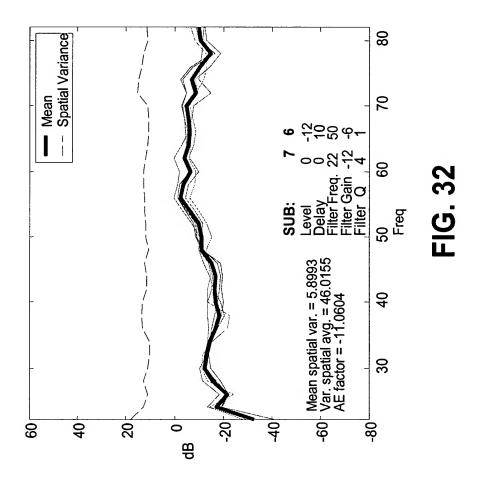


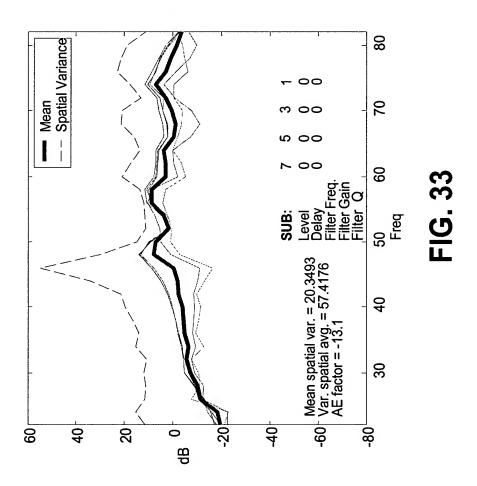






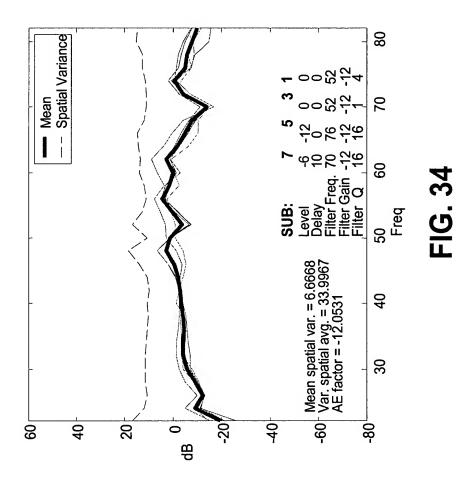


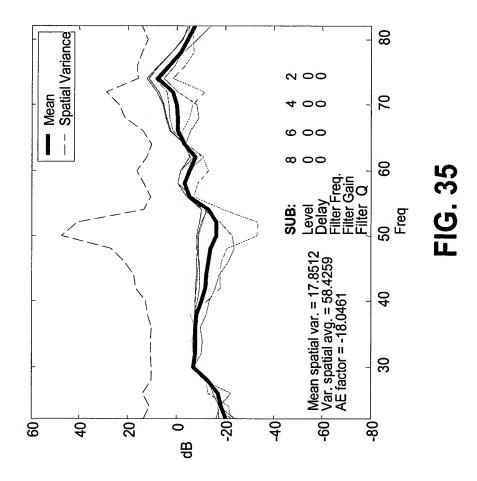


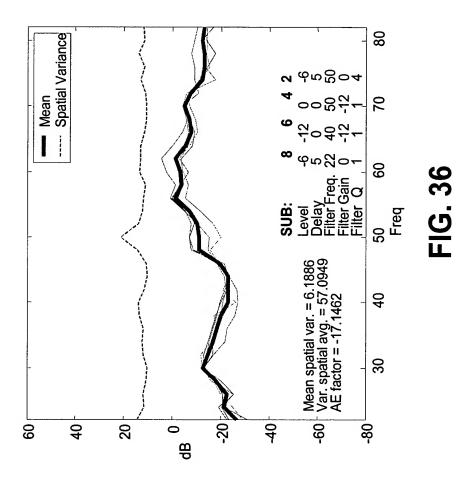


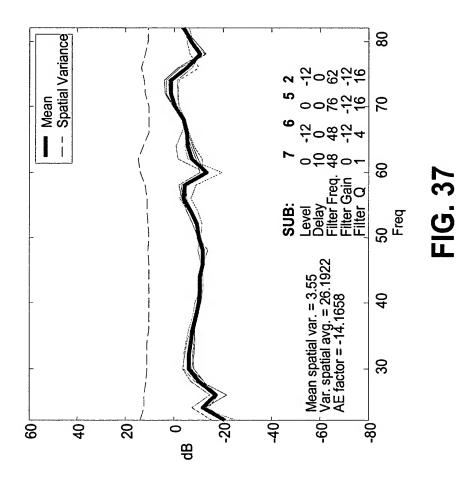
Inventor Names: TODD S. WELTI, ET AL.

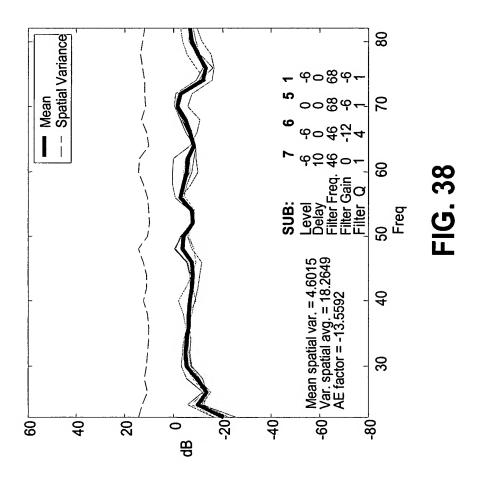
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Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
34/42





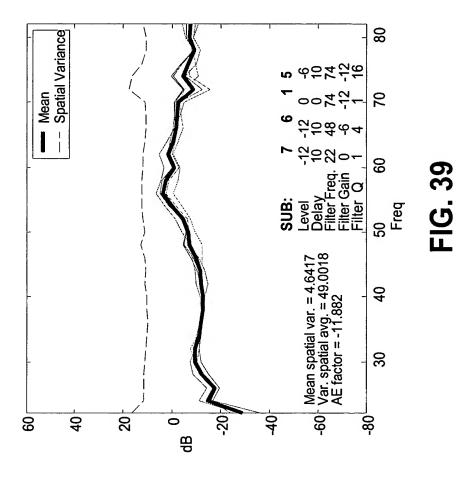






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Title of Invention: SYSTEM FOR CONFIGURING AUDIO SYSTEM
Docket No. 11336-545 (P03121US)
Filing Date: October 10, 2003
39/42



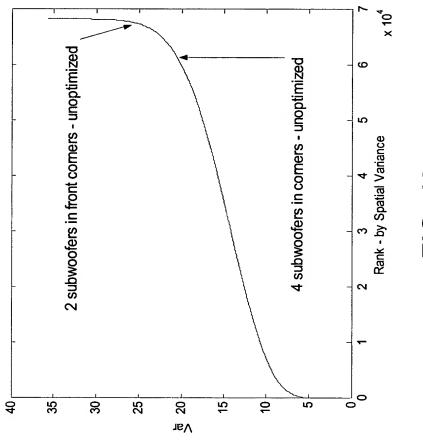


FIG. 40

